Rec'd Oct. 27th
Ans Nov 2d

Sargent

BOTANIC GARDEN,
HARVARD UNIVERSITY,

Cambridge, Mass. October 21 1874.

My dear Sir,

Our friend Dr Gray has turned over to me your note of the 10th inst. and I hasten to thank you for the seeds of C. A. Concolor, and Juglans undulata. both most acceptable to us. I have been flattering myself for the past two years that we had the former growing from some of Pringle's seed, but now he writes that he has seen C. A. Concolor this year for the 1st time. So I suppose it must go for grandis. The Concolor seed must have been picked too early, as it comes damp & mouldy. but there are, perhaps, a dozen good seeds in the lot. Your seed

of Yucca angustifolia are especially wanted as are seed of Y. brevifolia Y. Schottii and Y. guatemalensis if they ever come in your way.

Is there any way in which I can get after seeds of each of the following. ~~pam~~ Larrea tridentata, L. ultra var uncinata, L. quinquelobata, & L. Lanea from your part of the world. I don't know them in cultivation either here or in Europe. and want them for the new Arboretum.

I have no doubt that this Garden & Shaw's could exchange with a good deal of mutual advantage. and a couple of years ago, I sent him something with a view to some thing of the sort, but nothing ever

Cameron's fungus a note of acknowledgement on his part. Can nothing be done with him?

If you have not it, I can send you some of Lasix latrolepis for your Herbarium. It will do good. If you or any of your friends care to cultivate this handsome and interesting Japan form. It is a plant in Mr Hunnewell's garden has suffered badly this year.

I am sure that if you knew the confusion that reigns everywhere in regard to our N. Western Conifers you would come to the rescue of all of us cultivators with your notes!

Very truly yours,

C. S. Sargent.

Dr. George Engelmann.

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. May 31 1875.

My dear Sir,

I send you by this mail a young plant of Iresine undulata with cotyledons still attached. These are certainly not long petioles nor do they seem more separated than those of other species at the same stage of growth.

The acorns of this species germinate freely with me; and I have quite a number of plants.

Of L. mystapolia only one has come up. from the half dozen

a copy for sent.

I Linearis has germinated pretty compl. and these perhaps half a dozen plants.

Colorados Physalis not up yet. and not time, as there has been delay in planting the seeds. but I will let you know about them later.

Yours truly.

L. F. Ingersoll.

Dr George Engelmann
St Louis

Rec'd Oct 14th
Ans Oct 18th

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. October 11 1875.

My dear Sir,

Many thanks for the packet of Cactus which came to day in excellent condition.

We have just rec'd from Dunn of San Diego, plants & seeds of the Agaves, which he says are your A. Shawii & A. Utentii. Can you tell if these plants are known in cultivation under other names? This is not unlikely as so many Agaves have been introduced from Mexico - and

there is certainly the greatest confusion in their synonymy. Dunn speaks of A. Shawii being cultivated in Scotland under the name of Agave Xalapensis, but this is surely not correct. It looks in a young state much like Agave Geschottii of Belgian gardens. The Isoetes is all right so far - but shows no sign of fructification as yet. Thanks for the name. Thanks, also, for your trouble about the Rose seed. By the way have you an

Correspondents who could get seeds of Rudbeckia maxima, or Helianthus Maximiliani for us? If you have, will you kindly pass me with their address, obliging.

Yours truly,

C. S. Sargent.

Dr George Engelmann.

St Louis.

Rec Oct 29th
Ans Nov 4

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. October 25th 1875.

My dear Sir,

I send you by this mail some of the Isoetes. The pan in which it has been growing has been all summer in a cool house with a northern aspect, and the plant has been healthy like Drosera Sarracenia &c. but has not been kept in, or under water at any time. Since I have had it. I think it has rather failed in health during the past six weeks. In regard to Dum Giant tell you much beyond the fact that

his name is G. W. Dunn. and that is address is San Diego. He was established some years in San Francisco as a collector for the market of bulbs and seeds. and that has been in San Diego for the past two years doing the same thing.

He evidently has an eye for the main chance. in his botanical transaction. He only sent me plant of each species and two or three capsules. and these unfortunately have been broken up. and the seed planted. I was ~~[illegible]~~ induced to do this to Palmer, who has been in the same country this summer, in sending a lot of specimens,

succulent plants &c. and among
them more especially of these agaves.
of which he has already sent
photographs. When these come
the seeds shall be sent for.
The sun has germination & there
is good supply of both species
coming in.
I take a great interest in both
agave & yucca. and if at
any time seeds of these come
into your hands. I shall be
probably obliged if you will
share them with me.
In fact I will make this request
general. and ask we shall

of any American plant. To advantage either here, or for European Exchanges. You thus take me doing as well as possible: but an other year will begin to show their characters strongly.

Your sincerely.

C. S. Sargent.

The seed of Rosa setigera has not turned up yet.

Rec Jan 29

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. January 25 1876.

Dear Sir,

The box of plants, and seeds of Rosa Sebiana arrived yesterday in excellent condition. With hundreds the exception of the Sax Spinga, which look as if they had been a little touched by the cold. Many thanks for your kindness, which is most acceptable. As I have been especially interested for some years in the cultivation of Olyeve. I feel so much pleased to get a copy of your paper on the genus. I am include

Stromal. which is far to I know.
have never been introduced into
cultivation, and now think, thanks
to you we know more about them
I should hope to get holds of them.
Shall get some always subject
of sending plants of A. Shaneii,
A. Quantii & A. Utahensis.
but can send you some in the Spring
if you want them.

Truly yours.

C. S. Sargent.

Dr George Engelmann,
St Louis.

Rec'd July 8

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. July 5 1876.

My dear Sir,

I am very much obliged for your two papers in Agassiz & Pack. which you have been kind enough to send to me. I take it I shan't only receive one.

I am glad to hear that there is a chance of your coming East this Summer. & I shall then have the pleasure of making your acquaintance. and thanking

Yr in person for your Rundum.

Your very truly

C. S. Sargent.

Dr George Engelmann

St Louis.

Rec Nov. 6th
a Jan 16
x Nov 9

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. November 5 1876.

My dear Dr Engelmann,

I was in West Chester, the other day, and went to see the old Garden of Joshua Hooper, and the so called *Q. heterophylla*. There Mr Hooper told me that I can took leaves of this tree, but could not find any fruit. I got a few acorns, old rotting, which I send to you to complete your specimen.

I was at Bartram's Garden, and got there specimens of the leaves & bark of the *Q. heterophylla*: for you, & I was not here, you say that you were there. I could find no fruit either on

or young or under this tree.

I shall send the specimens from this tree until I learn whether you want them or not. or you may have get them yourself.

While in Philadelphia I noticed that the leaves of D. palustris are, in some cases, striped in the same manner as those of D. ill c folia and D. Georgiana. apart I don't remember to have seen them in the books anywhere. The scarlet & black oaks puzzle me this year more than ever. and I am all at sea about them. So that I can not say any certainty define the two extreme forms. Can you give me some tangible characters.

for the best marked forms?

My plant of *Agave Yuccaefolia* is showing a flower spike. first notice yesterday.

Your two plants will be sent soon i.e. day or two.

Faithfully yours.

C. S. Sargent.

Dr George Engelmann.

St Louis.

Acc'd Nov 20th
an Dec 5

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. Nov 15th 1876.

My dear Doctor,

Thanks for the Cattle seed.
what I shall plant at once. or
watch the results.

I think half a bushel of the Conyza
Saltuata. nuts. will be enough. I
should like to have them; but not
in barrel. as you kindly suggest.

You Gymnolobus still all right.

Some fine specimens of L. cinereo-Catesbaei
have just come from Mobile champs.
Should not I send you a plant in
the Spring for Shaws?

You don't say yet. whether or not I am
to send you the foliage from the tree

at Bartram's. The Agave Scopes is progressing finely, as already nearly four feet high. The growth of 15 days. I send a copy of Dr. Power's enumeration. Come to your house. Please let me have some of them.

Yours very truly.
C. S. Sargent.

Dr George Engelmann.
St Louis.

Rec Dec 20th
Ans same day

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. Dec 17 1876.

My dear Dr Engelmann.

In spite of the terrible weather the plants have arrived in good condition. Of course they were somewhat frozen, but not enough, I think, to injure them. Many thanks for them & for all the seeds which are particularly valuable.

Yesterday by mail the little packet of Cactus came. I should like some another year. The Vitis seed are all kept carefully planted.

I enclose $10. From it please charge yourself for any out lay. You may have made in my behalf. & hand the balance to Mr. Eggert. If this is not as much as I should give him let me know. & I will do the right

thing. It is too long a season, in your opinion, for the work he has performed. Let him have all the understanding that I want to encourage him in his botanical work, and that an other year. I will give him more to do. In collecting seeds of P. Pinetorum, (if he can do it). A common specimen of your western plants that he wants. But I leave all this to you to arrange with him. Only I want him to be satisfied & pleased. The Flax specimens are too valuable for winter bouquets. & they have all gone into the grounds. If you have not heard from Dr Gray you will be glad to know that I have a fine son. two weeks old

have that Mr Sargent is getting on splendidly.

Pray recall me to Mrs Engelmann & believe me to be

Yours obliged.

C. S. Sargent.

Plants of the Japan Ampelopsis sent by mail directly to Shaw, in your suggestion. There are plenty more if you will have them.

Rec Dec 21st
Ans same by A.C.

BOTANIC GARDEN,
HARVARD UNIVERSITY,

Cambridge, Mass. Dec 18 1876.

Mr Dr Engelmann.

Hooker has asked me to make for the Kew Museum a set of specimens of N. American Pines. Showing on a piece of the branch, the leaves, character of cones, &c. Pickering has been able to send him from the Centennial Exhibition nearly a complete set, but the following are still wanting:

Pinus Coulteri.
" Jeffreyi.
" Contorta var latifolia.
" Balfouriana.

I don't remember about the last, whether it is a good species, or is that name strong. Does you

herbarium possess duplicates enough to allow you to spare me a set of the above. large enough to supply what they want. that is specimens to hang up in the museum. not to go between green covers?

If it does. I shall be greatly obliged if you will send them to me. but you must not think for a moment of doing any thing which will have even the look of robbing yourself.

P. Strotina is also missing but I shall write Wallichianus to look out further for me.

It is terrible weather here today. snow. rain & sleet. very

bless. with it all seems thunder slaughtering!!! What are we coming to?

Faithfully Yours.

C. S. Sargent.

Dr George Engelmann.

St Louis.

Rec Jan 15
Ans — 16

January. 10th/77.

Allyndear Dr Engelmann,

I send you this P.M. by mail. flowers of Agave Jucaeofolia. i the hope that they may reach you without being frozen. There are three flowers in the box. 1 2 & 3 days old. & showing the position of the stigma at different times. In the oldest flower. I cannot see that the lobes of the stigma have opened at all. although the stigmatic fluid has appeared. and the stigma has somewhat enlarged. & is evidently in condition

to be attached only the bottom.

dropping from some of the flowers alone.

The honey appears about 8 a.m. in the day after the opening of the flower & is very abundant entirely filling the flower-tube. Colorless. honey-sweet. & as ~~adhesive~~ sticky as Maple Sirup. which it at much resembles.

Stamens adnate to base of the lobes.

Have yet to notice the time when the anthers become effete. & when the stigma matures fluid. I often. If there are other points

let me know as the flowers will continue to appear for an other week. Thanks for seeing of letter. Answer Solely.

In great haste.

Your friend

C. S. Sargent

Dr Geo. Engelmann.

St Louis.

Let me hear how the flowers reach you.

and bulbs
when do nothing open?
If in flower or bud?

Recd Febr 24th
Ans March 7

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. Feby 22 1879.

My dear Dr Engelmann.

I send you by mail a small box containing the specimen of buds according to the enclosed. No 1 is certainly common. So I send me of the scales taken from the bark. I think I can follow this species from the normal species by the normal small buttons. up to these scaly buttons. If this holds good with many specimens. some change in sections or rather arrangement of sections of the genus. will be necessary. I should like your opinion of this tree. that is for mountain we looked just behind my house.

The other tree from which I send the specimen I am clear every time

K. I send you some buds
specimen of D. discolor. or D
[illegible] I can find a slight difference
between the buds on the Cambridge
tree. and those from the tree near
my gate in Brookline. What
say you? Just for once look.
at 2 to 10. carefully. The
specimen in for the very fine
large tree at Brookline. which
I took for a European tree.
I now think it is only D. bicolor
in a form of it. Something like
the tree by the gate. I believe
there are six or seven of these
trees. all near each other. and
which are all very much alike.

The buds of the Cumbridge tree are certainly more obtuse than any in the Brooklyn trees. I want to know about the stigmas of your A. Shawii. Does it open in the same way as you observe in A. Virginica, and as in Amazyllis proper. or does it, at maturity, without opening, become connate with the papillae. as in my figure of the 2nd section. If the latter when and in what manner do the papillose growths disappear? Is the stigmatic fluid copious?

Your letter, but still write with pain & difficulty.

Yours truly,

C. S. Sargent

Rec Febr 28
Ans March 7

February 25 1877.

My dear Dr Engelmann.

I find in looking over my Botanical opuscula, with a view of having some of them bound, I have the following from your pen. All papers in Pacific R.R.Rs.

All in No 1. Vol III Trans. St Louis Acy
" " " 1 " II " " " " "
" " " 2 " II " " " " "

Notes on some Ferns of the U.S. by Kunze communicated by Dr G. E.

Monograph of Cuscutineae

Additions & corrections of Monograph of Cuscuteae.

Synopsis of Cactaceae.
Cambridge 1856

Paper on Cereus gigantens.

Paper on 2 new Dioecious genus.
1859.

Sketch of the Botany of Mitchell's
Expedition. 1848. Correction

Plantae Lindheimerianae, 1 & 2

N. A. Equisetum.
presented by Dr G. E.

Paper on Agave
" " Oaks.

Gentlemen
Yours

If you have copies to spare of
any others of your botanical
papers. I shall be very much
obliged to you, if you will give
me as full a set as possible.
If there is any Lt Sonora
published from above Sumpsure
them. I shall be obliged if you

will give you his address.
that I may write and order them.
I take for granted that I
should not have applied to you.
has there been any other way
of working up my set, and
that I am anxious not to put
you to any expense in the matter.
I sent for the other day some
tobacco seed, sent from Kew,
as being something very fine
thinking ~~it~~ you might like
to give it to some of your
correspondents to try. The sending
of the Hickory buds has been delayed
but they go at last. If you want more,
or larger specimens let me know.
Yours very truly, C. S. Sargent.

Rec March 16th
Ans same day

BOTANIC GARDEN,
HARVARD UNIVERSITY,

Cambridge, Mass. March 13 1877

My dear Dr Engelmann,

Many thanks for your drawings of the stigma of C. Shaw.

As for the stigma of my agave I only noticed what I saw.

section of style

Although I have seen your observation in such a thing to my own a thousand times. I looked carefully at the stigmas of various flowers with the expectation of finding the lobes open, being influenced by the by your observation of C. virginica. For was the stigmatic

fluid contained in the cup formed by the opening lobes. as it would have been had there been any opening. but it stood (so to speak) boldly on the Ends of the Stigma. The fluid secretion being possibly 2 times thick.

Doubting the accuracy of my observation. as it did not lead me to the result ~~I~~ you have come to effect. I submit the whole thing to Dr Gray. who confirmed my observation about the lobes not opening.

In view of all this I don't think I am wrong. and it seems to

[Mar. 13, 1877]

be that until we examine
the flower of some species of
Agave. the opening of the lobes
of the stigma should not
be considered. generic.

Of course Germination. an
entirely instinct of the
proboscides.

I'll send the hickory flower.
What chance is there of getting
them to you in a fresh state?
I think would be better than
dried specimen. I suppose, too,
you know better see flower
of your Sierran species. what
is a common tree. [illegible]

see by the boat. I have already sent.

Your paper on Cactus is Bot. Gaz. Boundary. I have not yet received my ~~Bot~~ copy of your paper in Journal for June. of Acad of Science. Stops at page 458. or at the end of the 2d line of T. J. Alpina

Yours truly

C. S. Sargent.

Dr Geo Engelmann

St Louis

Rec'd March 26
Ans April 25

BOTANIC GARDEN,
HARVARD UNIVERSITY,

Cambridge, Mass. March 22 1877.

My dear Dr Engelmann.

I fancy that your theory in regard to the flowers of my Agave not having completely developed is the correct one. The weather at the time has been very bad and dark, hardly any sun, and snow nearly every day. Temperature in the house low; and as unlike the climate of Mexico as possible. That these conditions have unfavorable is evident from the fact that all the varieties dropped off in two or three days after the fading of the flowers, even those which had impregnated artificially. My other

Agave, which flowered in April
remember. set plenty of seed. but
at that time, unfortunately, my
attention was not directed to the
developement of the flowers. Cutting
sections of the style showed it to be
hollow or were the lobes of the stigma?
Is there no chance of being able
to introduce some of your N. Mexican
species? It is most desirable to do
so: As for the Elm and Ivy do it
with pleasure. Who shall I send it
to? I have long wanted a correspondent
with C. Rock on account of his
Mineralogical attainments. but never
have had the reason to bring it
about. Should the seed go to him?
If our Elms have come in Europe (a thing
which astonishes me) it is because
seeds, which like those of our Elm shed

and White Mottles. when in Early summer. transit very badly indeed and soon loose their power of germination. The surest way would be to plant the seed here as soon as ripe. and then in the autumn send the seedlings on. that it would be stowed in the hold. and not to travel. Five dollars would take over a box containing some thousand of such plants. from here to Berlin. If you have this plan broken to agreeable to them there. I'll attend to it for you. but I would have you to take the initiative in the matter. such seeds seeds or plants as you consider best. If you collect Elm seeds remember I want a supply for myself of U. alata. & U. fulva. There is no one in Oregon I know. who knows Conifers. or is equally place as for

A. grandis. Did you ever see in Eastern gardens the true thing and have not all the plants made that seem for A. Concolor?

Who will get seeds of A. lowiana of Douglas? It is very important to get holds of them. What a pity Green has come East again! He would have helped us with the conifers. Shaw picked up a perfect copy of your Junipers paper. So I sent seeds to.

Sincerely yours,

C. S. Sargent

Dr George Engelmann.

St Louis

Recd May 16th
Ans — 17

May 13 1877.

My dear Dr Engelmann.

By mail to day I send box

C. No 1. L. Coloni on pedunculata

No 2. L. near Attis. resembling

L. Colonii as we supposed last year.

No 3. L. by my gate.

Nos 4 & 5 & 6 L. belonging to the same

group as No 3. and have belongs,

two, I suppose, No 2.

No 7. Carex. porrecta with scaly

bark back of my house.

I have given directions to have

lists of all the Californian Orchids
that you or they developed
and among them D. Emersoni.
which is very late.

Now there is not much hope of
my being able to get fresh
flowers of either Orch or Blackberry
to you in a condition to be of any
service. but let me know which
you want me to make drawings
specimens for you.

It is like a summer day
here to day. things are coming
out very fast. Dodd forbids
shows packed they. and dont

felt very confident of the success of this sending. but let me know how they reach you.

Faithfully.

C. S. Sargent.

Dr George Engelmann.

St Louis

What have you to say about the probably species of Pinus Mutis?

Rec'd June 25 1877
Ans same day

June 22d.

Dear Dr Engelmann.

I send you to day a bit from a Spruce which puzzles me. It is growing in a bed in which there are several of the Colorado Abies Mengziesii and some white Spruce. I always supposed the plant has one of the former, until I noticed the unusual growth this year. I send

for comparison a small bit
off of one of the other &
Inquiries. ~~for comparison~~
You will see how much more
scattered, rigid and sharp
pointed the leaves are. on
the cultivated plant.

I shall send you dried
specimens of my peculiar
potatoes in a few days. also
extract of my Cambridge descendants
of plants & seeds which is planted
hard now to my Egyptian
with such instructions as

may be necessary. You don't
tell me where I stand better
look for a lottery office
of Prince Potter. who is shown
come from so far North
as possible. that the plant
may be hardy. I will let
me business to my note to
this subject in the "Intermediate
& B." of the Jersey Club. and
that is more than doubtful
to me.. and I scarcely know
what to do in the matter.
If you have what of Northern

Creation; I should be glad to have them. I suppose you will be angry all summer with an botanical friend — for how can you resist such a temptation!

If you think there is no hope in your Forestiera or Ilex but the two plants of Calycocarpum are growing finely. The Gymnoclados have quite gone.

Faithfully yours,

C. S. Sargent

Rec'd Aug 27
Ans — 31

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. August 24/1879

My dear Dr Engelmann,

Your seed of Fouquieria were all planted. & I am hoping to upset. five seedlings in the result. They are strong & healthy. So I don't think Mr Eggert need bother about well seedlings, as it is doubtful if they would grow. Many thanks for your introduction to Mr Lettuman. to whom I have wrote soon. I will attend to

You putting specimens of

Q. bicolor ~~too~~ in due time.

Yes. You memory is right

in Brooklin from low the

bark on both stem & branches

"rough & cracked" but not at

all flaky. Do you see any

<u>pedunculate</u> flower about there

but that leaves to hypothesis

& dangerous ground.

I hope you have impressed on

Green. the importance of

getting good ripe fruit of

<u>Q. Emoryi</u>! We have two

plants of <u>Agave Geyeriana</u>

throwing up tall strong stout flower stems here. I will send you some of the flowers later. You seem for the Indian Territory: have not come yet.

Yours sincerely,

C. S. Sargent.

Dr George Engelmann.

St Louis.

Rec Sept 27
Ans Oct 5

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. Sep 24 1873

Dear Dr Engelmann,

I send pressed flowers of Agave Yuccaefolia. as you desired also a drawing which Mr Sargent has made, which I think, I fear, be of much use to you — As you know these things dont press well. but you will I hope be able to make out the position of the stamens. In the case of my plant of this species, which flowered during last January the tube of the perianth was entirely filled with the honey secretion, and this secretion continues until after the flower

had completely withered. In fact it has the most copious secretion of the sort I have ever witnessed in any flower. Even in the case of the two plants here, flowering in the open air there has not been any sign whatever of fluid in the receptacle. In consequence the flowers have been visited by very few insects. Those visitors only a rare honey-bee, about the species, but they soon left in disgust. The ovary swelling slightly, all dropped off three or four days after the withering of the style. What have you got to say to them?

The lobes of the stigma opened slightly

is that allowing for the developement of the flowers on my plant. but the stigmatic fluid was much less copious in this case than in my plant -

Lettermann

I have lost a note for Leggett which I answered: but I shall not send again - Just go home & urge on him the importance of his getting the Prairie Mills seeds.

Now that other correspondents have failed I depend on him. & I am perfectly willing to make it worth his while to do this work.

I hear nothing from you or from Flemming about the Swallow Elm. It is time I should know about it if anything is to be done

then you. Not one of the seeds of
Either U. racemosa or U. pulcra.
You sent germinated, but I have a
few seedlings for seed sent from
Beal of Michigan. Can you give
me the name of any intelligent land
broker or Company maker in St Louis
who could give me some details
about the Economic value of U. racemosa
in comparison with the common Elm,
or other trees? If you can send me
to him. Can you give me the name
of the plant of S. California, which we
have called "Emergii" or "Lobii"?
Send you seedlings in the Spring.
Also the name of the oak "No 29" of
Palmer's collection in S. California in
1875. Yours gratefully obliged,
C. S. Sargent.

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. 187

No. 1. Carya porcina with scaly bark. Brooklin

No 2. " " typical form. "

No 3. " " intermediate between Nos 1. & 2.

No 4. " tomentosa.

No 5. " alba. Brooklino.

No 6. " " Cambridge.

No 7. Quercus bicolor Cambridge.

No 8. " " at my gate.

No 9. " " near last and similar to it.

No 10. " At Brooklino near Celtis.

No 11. A. Hudsonica Brooklino.

~~With very scaly bark~~

Recd 9 October 4
Ans — 5

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. October 1 187 7

Dear Dr Engelmann.

I have been in Maine on purpose to investigate the total growth of Pinus resinosa. You say in Gray's Manual "Cones deciduous after shedding the seed" — I found in Every Case the cones which shed their seed last autumn still persist to the branches. I also found one branch with the cones of 1877. 1876 1875 & 1874. — This I send you by mail to prove that my observation is correct — The cones of 1876, that

in those which should when ripen
then autumn are very rare. I only
saw half a dozen, & none of them good
for anything. This tree is getting
very rare in Maine, & such I fear
soon be entirely destroyed there.
Much is cut for timber & I only
saw a very hungry plant
coming up. Indeed it seems but
few cones in comparison with the
other species of this neighborhood.
I send a specimen of P. rigida
P. rigida
with the cones of last year, as
still persistent.

Yours,

C. S. Sargent.

Rec Oct 5th
Ans same day

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. October 1 1877.

My dear Dr Engelmann,

I enclose a list of some of the plants we want, and also what Mr Leggett can get for us. I enclose the list and cover to you. As I have not heard from him in reply to the letter I wrote him about P. Metis seed. So I fear the direction was not correct. Some of the things of course are not within his range. The Burmelias possibly the other man can get. I should like very much to have them. Hooker brings home some nice

Specimens of Juncus Leana.
with young fruit. I should like
to plant some if they are to be
had.

Yours,

L. S. Sargent.

Rec Oct 25
Ans — 26

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. October 22 1877

My dear Dr Engelmann.

I send you the following kind.

The cones.

No 1. Pinus Sabiniana.

No 2. Pinus " . which I know think is nothing but a large western P. alba, further examination throwing away with the recurved cones I thought we found.

No 3. The common Chestnut oak of western Vt. & the eastern shores of Lake Champlain. sent by C. G. Pringle of Charlotte Vt. This species is the Q. monticola. of the manual.

No 4. Pinus Sabiniana. collected from summer by me. on Martha's Vineyard

its northern limit. Shelby station Dorfan on
Skunk in S. Engelm.

No. 5. L. castanea. This is from the
tree seen Saturday Sept. 1. when I found
there two year ago. I showed you
seedlings at the Arboretum. Seen in the
neighborhood again but back was got
for these specimens as you seemed in doubt
about the specimen. The tree is small. with
white scaly bark. very like the bark of
L. alba. The fruit as you see is very
small. The bark especially is very
distinct from that of the common Chestnut
oak. of the banks of the Hudson. there it
is the commonest oak. All appearances
the var. monticola. Except these are true.
so far as I have observed. this the var
monticola grows where the bark is very
distinct shaggy. dark brown. and
very deeply furrowed. almost as deeply as in
the plants of the Populus balsamea. This
renders the tree very distinct. and easily made

but by looking at the stem alone seen for the Pecan
Shagbark. The Internal Cells of the fruit, which is unlike
both the Pecan and Shagbark. I have seen them in the Hudson
by your and more than 3 feet thick

Rec Nov 8th
Ans same day

BOTANIC GARDEN,
HARVARD UNIVERSITY,

Cambridge, Mass. November 1 187

Dear Dr Engelmann,

I have to day your letter in regard to the Science Herb. I have sent the papers to Mr Durand, who has shown a great interest. Mr Hunnewell, who is forming a natural history collection of every sort - has a large cabinet in which to put his herb. but when I saw it there was little or nothing in it. I will consider this a good chance to help us. I have advised him to do so. Feeling it time

If an Fermont keep you.

The Mexican Bombing Plants sometimes sell much better in Europe & Germany than here. and a notice of them Either in the Journal of Botany or one of the Continental Journals might help them off. Have you tried Montreal? or L. I?

Pittsburgh Jones.

C. S. Sargent.

Dr George Engelmann.
St Louis.

Rec Dec 5
Ans — 15

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. Dec 2 1877

My dear Dr Engelmann.

Many thanks for the fine lot of Phix fruit. which has come quite safely.

Will you oblige me by handing to Mr Eggert the enclosed. & let me know when you are writing again if he is satisfied.?

Faithfully yours,

C. S. Sargent.

Rec'd Dec 26th
Ans Jan 8

BOTANIC GARDEN,

HARVARD UNIVERSITY,

Cambridge, Mass. Dec 22 187

My dear Dr Engelmann,

Many thanks for the copies of your publications just received, and which I shall read with the greatest interest.

When I sent Mr Eggert the $10 last year I supposed it was rather more than I was justified in doing considering what he had collected. So this year I sent rather less than I otherwise should. Now, however, I need no

other $5. which I shall certainly have. I have not yet received anything whatever from Mr Sitterman. said I am and the Bumelia seed. I shall be glad of it.

I take this occasion to wish health & happiness to you & yours for the new year. which is just about to begin.

Sincerely yours.

C. S. Sargent.

Dr George Engelmann.
St Louis.